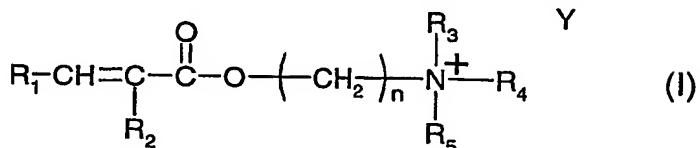


Claims

1. A copolymer derived from the polymerization of
 (a) at least one cationic monomer of formula (I),



5

wherein

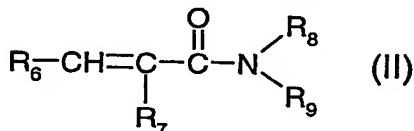
 R_1 is hydrogen or methyl, R_2 is hydrogen or $\text{C}_1\text{-}\text{C}_4$ alkyl, R_3 , R_4 and R_5 are independently from each other hydrogen or $\text{C}_1\text{-}\text{C}_4$ alkyl,

10

 n is a integer from 1 – 5, and Y is a counterion,

and

- (b) at least one monomer of formula (II)



15

wherein

 R_6 signifies hydrogen or methyl, and R_7 , R_8 and R_9 signify independently from each other hydrogen or $\text{C}_1\text{-}\text{C}_4$ alkyl,
with the proviso that at least one of the substituents R_6 , R_7 , R_8 and R_9 is
 $\text{C}_1\text{-}\text{C}_4$ alkyl,

20

and

- (c) optionally at least one cross-linking agent, which contains at least two ethylenically unsaturated moieties.

2. A copolymer according to Claim 1 characterized in that it consists of

25

20 – 95 wt-% of at least one monomer of formula (I) and of

5 – 50 wt-% of at least one monomer of formula (II).

3. A copolymer according to Claim 1 or 2 characterized in that it consists of
-
- 40 – 90 wt-% of at least one monomer of formula (I) and of

10 – 40 wt-% of at least one monomer of formula (II).

4. A copolymer according to anyone of the preceding claims characterized in that the copolymer comprises 50 – 500 ppm, preferably 100 – 300 ppm of at least one cross-linking agent based on the total amount of the copolymer.

5. A copolymer according to anyone of the preceding claims characterized in that

R_1 is hydrogen or methyl, more preferably hydrogen,

R_2 is hydrogen or methyl, more preferably hydrogen,

10 R_3 , R_4 and R_5 are independently from each other hydrogen or methyl, more preferably methyl,

n is an integer from 1 – 4, and

Y is Cl; Br; I; hydrogensulfate or methosulfate.

- 15 6. A copolymer according to anyone of the preceding claims characterized in that

R_6 signifies hydrogen or methyl, more preferably hydrogen,

R_7 signifies hydrogen or methyl, more preferably hydrogen, and

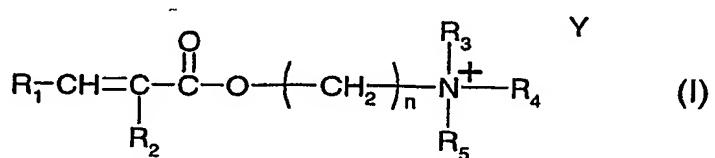
R_8 signifies hydrogen or methyl, and

R_9 signifies hydrogen or methyl, more preferably methyl,

0 with the proviso that at least one of the substituents R_6 , R_7 , R_8 and R_9 is methyl.

7. A copolymer according to Claim 1 derived from the polymerization of

- (a) a cationic monomer of formula (I),



5 wherein

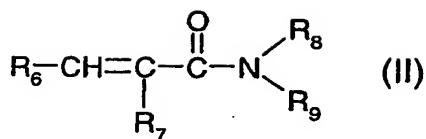
R_1 , R_2 , R_3 , R_4 and R_5 are independently from each other hydrogen or methyl,

n is 1, 2 or 3, and

) Y is a counterion, preferably Cl; Br; I; hydrogensulfate or methosulfate,
and

- (b) a monomer of formula (II)

Rectified Sheet (Rule 91)
ISA/EP



wherein

R₆ signifies hydrogen or methyl, more preferably hydrogen.

R₁ signifies hydrogen or methyl, more preferably hydrogen, and

5 R₈ signifies hydrogen or methyl, more preferably methyl, and

R₃ signifies hydrogen or methyl, more preferably methyl.

with the proviso that at least one of the substituents R_6 , R_7 , R_8 and R_9 is methyl,

and

0 (c) optionally at least one cross-linking agent selected from the group of tetra allyl ammonium chloride; allyl-acrylamides and allyl-methacrylamides; bisacrylamidoacetic acid and/or N,N'-methylene-bisacrylamide, preferably tetra allyl ammonium chloride and/or N,N'-methylene-bisacrylamide.

5 8. A copolymer according to Claim 7 derived from the polymerization of

20 – 95 wt-% of at least one cationic monomer of formula (I), more preferably of 40

90 wt-% of at least one cationic monomer of formula (I)

and

of 5 – 50 wt-%, more preferably of 10 – 40 wt-% of at least one monomer of formula

(11)

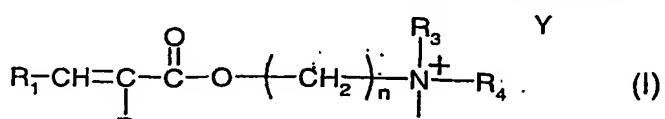
and

of 5

300 ppm (based on the total amount of monomers) of at least one compound of the group of tetra allyl ammonium chloride; allyl-acrylamides and allyl-methacrylamides; bisacrylamidoacetic acid and/or N,N'-methylene-bisacrylamide, more preferably tetra allyl ammonium chloride and/or N,N'-methylene-bisacrylamide.

9. A copolymer according to Claim 1 derived from the polymerization of

(a) 40 – 90 wt-% of a cationic monomer of formula (I).



**2 Rectified Sheet (Rule 91)
ISA/EP**

wherein

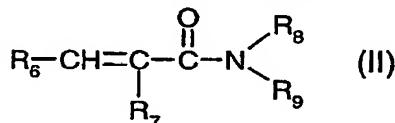
R₁ and R₂ are hydrogen,

R₃, R₄ and R₅ are methyl,

n is 1, 2 or 3, preferably 2, and

Y is Cl; Br; I; hydrogensulfate or methosulfate, preferably Cl,
and

(b) 10 – 40 wt-% of a monomer of formula (II)



wherein

R₆ and R₇ signify hydrogen,

R₈ and R₉ signify methyl,

and

(c) of 100 – 300 ppm of tetra allyl ammonium chloride and/or N,N'-methylene-bisacrylamide.

5

10. Use of a copolymer according to anyone of the preceding Claims for water- and/or oil-based compositions, preferably for water- and/or oil-based personal care compositions.

10 11. An oil/water- based personal care composition comprises:

0.5 – 10 wt-% of at least one copolymer according to Claim 1 - 8

2 – 25 wt-% of at least one oil-component,

0 – 25wt-% of at least one adjuvant and/or additive,

water up to 100 wt-%.

5

12. A typical oil-based personal care composition comprises

0.5 – 10 wt-% of at least one copolymer according to Claim 1 - 8

50 – 99 wt-% of at least one oil-component,

0 – 25 wt-% of at least one adjuvant and/or additive.

0